

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

T (786) 315-2590 F (786) 315-2599

PRODUCT CONTROL SECTION

www.miamidade.gov/economy

11805 SW 26 Street, Room 208

MIAMI-DADE COUNTY

NOTICE OF ACCEPTANCE (NOA)

ES Windows, LLC 3550 NW 49 Street Miami, FL 33142

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "5000" Outswing Aluminum Casement Window – L. M. I.

APPROVAL DOCUMENT: Drawing No. W08-08, titled "S-5000" Alum Outswing Casement Wdw. (L.M.I.)", sheets 1 through 10 of 10, dated 01/23/08, with revision E dated 05/06/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Barranquilla, Colombia S.A., model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 12-0820,06 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROVED

15/14/15

NOA No. 15-0129.05 Expiration Date: April 03, 2018 Approval Date: May 14, 2015

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 11-0419.01)
- 2. Drawing No. W08-08, titled "S-5100 Alum Outswing Casement Wdw. (L.M.I.)", sheets 1 through 10 of 10, dated 01/23/08, with revision E dated 05/06/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Type "B" Window, Grade 10, per FBC 2411 3,2.1, TAS 202-94 and per ASTM F 588-07

along with marked-up drawings and installation diagram of series 5000 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-6294 and FTL-6295, dated 02/25/11 and 03/16/11 respectively, both signed and sealed by Marlin D. Brinson, P.E.

(Submitted under NOA No. 11-0419.01)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, Type "B" Window, Grade 10, per FBC 2411 3.2.1, TAS 202–94 and per ASTM F 588–04

along with marked-up drawings and installation diagram of series 5000 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5336, dated 11/16/07, signed and sealed by Carlos S. Rionda, P.E. (Submitted under NOA No.08-0204.05)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-5th Edition (2014), dated 10/27/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Glazing complies with ASTM E1300-09

Manuel Perez, P.E. Product Control Examiner NOA No. 15-0129.05

Expiration Date: April 03, 2018 Approval Date: May 14, 2015

ES Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 13-0129.27 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 04/11/13, expiring on 12/11/16.
- 2. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-5th Edition (2014), and of no financial interest, dated October 27, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Laboratory compliance letter for Test Reports No. FTL-6294 and FTL-6295, issued by Fenestration Testing Laboratory, Inc., dated 02/25/11 and 03/16/11 respectively, both signed and sealed by Marlin D. Brinson, P.E. (Submitted under NOA No. 11-0419.01)
- 3. Laboratory compliance letter for Test Report No. FTL-5336, issued by Fenestration Testing Laboratory, Inc., dated 11/16/07, signed and sealed by Carlos S. Rionda, P.E. (Submitted under NOA No. 08-0204.05)

G. OTHERS

1. Notice of Acceptance No. 12-0820.06, issued to ES Windows, LLC, for their Series "S-5000" Outswing Aluminum Casement Window - L.M.I., approved on 11/08/12 and expiring on 04/03/18.

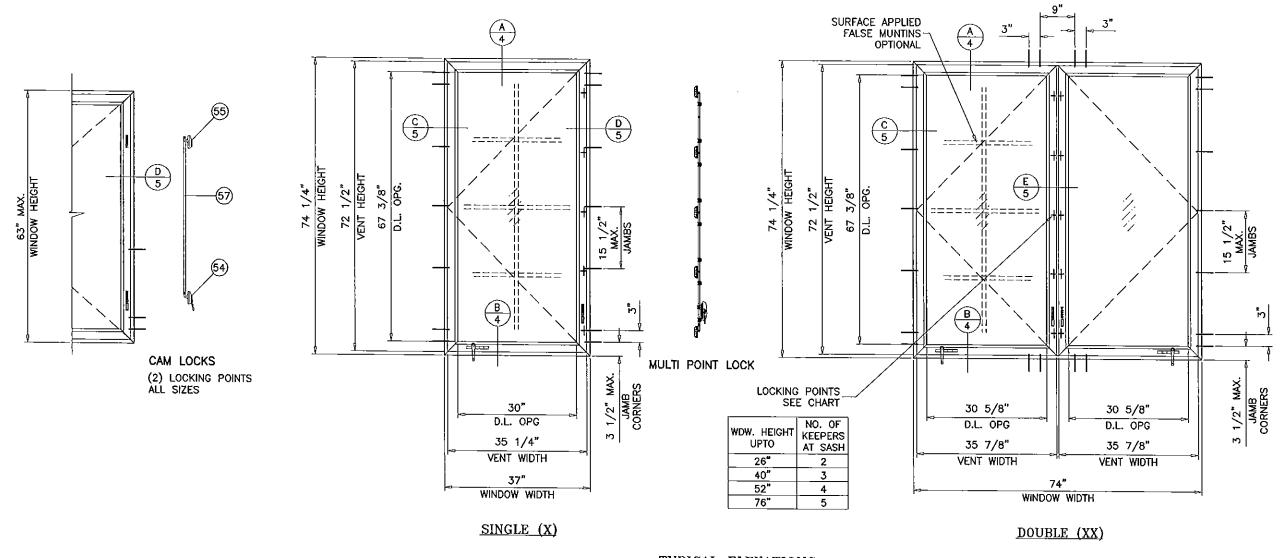
Manuel Jerez, P.E.

Manuel Perez, P.E.

Product Control Examiner

NOA No. 15-0129.05

Expiration Date: April 03, 2018 Approval Date: May 14, 2015



SERIES 5000

ALUMINUM OUTSWING CASEMENT WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE OR DOUBLE WINDOWS OR SIDE BY SIDE COMBINATIONS OF CASMT/CASMT OR CASEMENT WITH SERIES 5100 FIXED WINDOWS USING MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM CASEMENT WINDOW, FIXED WINDOW OR MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE.

TYPICAL ELEVATIONS

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

> Engr: JAVAD AHMAD CIVIL FLA. PE # 70592

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15-0129.05 Expiration Date April 3, 2018

By Manuel Jeres Miami Dade Product Confron

O ALUM OUTSWING CASEMENT V WINDOWS, LLC

N.W. 49 STREET

II, FL. 33142
(305) 638-5151 FAX. (305)

(305)

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT

drawing no. 80-80W

sheet 1 of 10

DESIGN LOAD CAPACITY - PSF FOR (X) SIZES									
		WITH CAI	M LOCKS		WINDOWS	WITH MU	LTI POIN	T LOCK	
WINDOW DIMS.			TYPES D, E, F		TYPE	1	TYPES 3'	GLASS 'C', 'D',	TYPES 'E', 'F'
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	
19-1/8"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
26-1/2	26"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
37*	26	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
42"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
19-1/8		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
26-1/2"	 	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
37"	38-3/8"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
42"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
19-1/8"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
26-1/2"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
37"	50-5/B	85.0	85.0	85.0	85.0	90.0	90.0	90.0	
42"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
19-1/8"		85.0	85.0	85.0	85.0	90.0			90.0
26-1/2"		85.0	85.0	85.0			90.0	90.0	90.0
37°	63"				85.0	90.0	90.0	90.0	90.0
37 42"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
19-1/8"		-			-		_	90.0	90.0
	74. 4 22	 -					_	90.0	90.0
26-1/2"	74-1/4"	<u> </u>			-		:	90.0	90.0
37"					_			90.0	90.0
19-1/8"								90.0	90.0
26-1/2	76"			-		-	-	90.0	90.0
36"				-		_		85.4	85.4
24"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
28"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
32"	48"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
36"	70	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
40°		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
42°		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
24"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
28"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
32"	F 40	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
36°	54"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
40"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
42°		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
24"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
28°		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
32"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
36"	60*	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
40"		_	-	-	-	-	-	90.0	90.0
42"					 _		-	90.0	90.0
24"	1	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
28°		85.0	85.0	85.0	85.0	90.0	90.0	-	 -
32°	66"	85.0	85.0	85.0	 		 	90.0	90.0
36°	••				85.0	90.0	90.0	90.0	90.0
		<u> </u>	<u> </u>	-	 -	 -	 	90.0	90.0
40*	-			-	 -	-	⊢ -	90.0	90.0
24"	1		- -		 -		-	90.0	90.0
28"	72	<u> </u>	<u> </u>	-	 -	_	ļ <u> </u>	90.0	90.0
32°			<u> </u>	-	<u> </u>	-		90.0	90.0
36"		-	<u> </u>		-		_	90.0	90.0
24"			<u> </u>		 -		<u> </u>	90.0	90.0
28*	76"			_		_	_	90.0	90.0
32"	'`			_				90.0	90.0
36"	1	I _	1 _	-			T-	85.4	85.4

		DESIGN L	OAD CAPA	CITY -	PSF FOR	(XX) S	IZES		
WITH CAM LOCKS					WINDOWS	WITH MU	JLTI POIN	T LOCK	
WINDOW	f DIMS.		TYPES D, E, F		TYPE A'		TYPES 9'	GLASS 'C', 'D',	TYPES 'E', 'F'
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
37 "		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
53-1/8"	00*	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
74"	26"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
84*		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
37"	-	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
53-1/8"	70 7/07	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
74*	38-3/8"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
84*		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
37"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
53-1/8"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
74"	50-5/8"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
84"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
37"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
53-1/8"		78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
74"	63"	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67,7
84"		_						60.8	60.B
37*		_					_	63.9	63.9
53-1/8"	74-1/4"		_			-		47.2	47.2
74"	' ' ' ' '				_			40.1	40.1
37*			 ·		_		_	59.5	59.5
53-1/8°	76"	<u> </u>		<u> </u>				43.9	
74"	, ,	<u> </u>	- -						43.9
48"	!	85.0	85.0	85.0	95.0	00.0	-	37.2	37,2
56"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
64"		85.0	85.0		85.0 BE 0	90.0	90.0	90.0	90.0
72 "	48"			85.0	85.0	90.0	90.0	90.0	90.0
72 80°	1 40	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
84"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
48"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
56"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
64°]	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
72 "	54"	85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
80"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
84"		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
48		85.0	85.0	85.0	85.0	90.0	90.0	90.0	90.0
56*		85.0	85.0	85.0	85.0	88.0	88.0	88.0	88.0
64"		79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
72"	60"	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
80"			-	-	<u> </u>	├ -	<u> </u>	68.0	68.0
84"		-			_	_	-	66.2	66.2
48"		74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
56*		65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
64"	6 6 "	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
72*				<u> </u>	<u> </u>	-	-	53.2	53.2
80"	ļ	<u> </u>		- -	-		<u> </u>	49.4	49.4
48"				<u> </u>			-	56.8	56.8
56⁼			-		-		_	49.5	49.5
64°	72"		-	_		_		44.2	44.2
72"				_				40.2	40.2
48*		_		_	_	-		48.1	48.1
56*		-		-		_	-	41.8	41.8
64°	76*			_	_	-	_	37.2	37.2
72"	<u> </u>		_	_	-		T -	33.8	33.8

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219 Engr: JAVAD AHMAD CIVIL FLA. PE 70592 C.A.N. 538

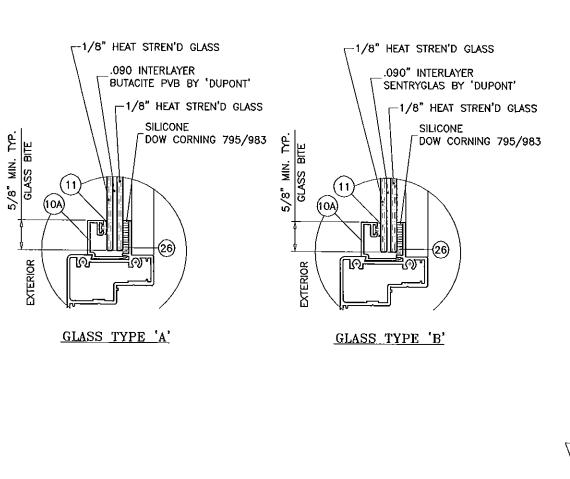
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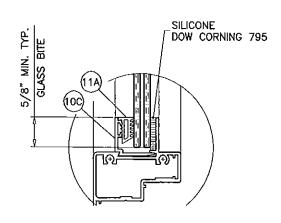
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0129.05
Expiration Date April 3, 2018
By Manuel John
Miami Dade Product Control

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SO00 ALUM OUTSWING CASEMENT WDW. (L.M.I.) AL-FAROOQ CORPORATION	ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174	TEL. (305) 264-8100 FAX. (305) 262-6978	COMP-ANL\W08-C
AL-F	1235 S. MIAMI.	TEL (305	
L.M.1.)		-	5158
WDW. (FAX. (305) 638-5158
WENT \			(305)
CASE	H H		FAX.
UTSWING	E.S. WINDOWS, LLC 3550 N.W. 49 STREET	MIAMI, FL. 33142	TEL. (305) 638-5151
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ALUM 0	Z × × z	5	5) 638

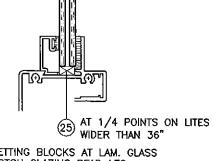
(10 date | 10.20.11 | 10.20.12 | 10.20.12 | 10.20.14 | 10.20.15 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | 15.05.05 | date: 01–23–08
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no. 80-80W sheet 2 of $\overline{10}$

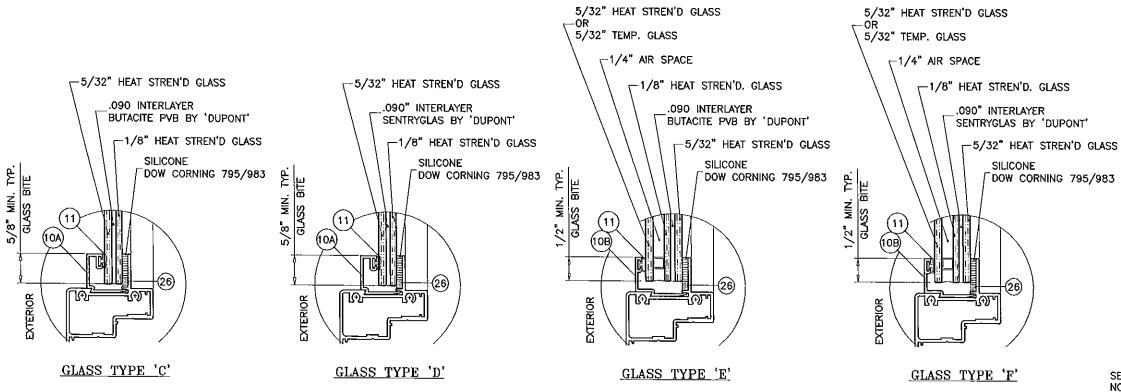




ALT. GLAZING OPTION THESE GLAZING STOP CAN BE USED WITH GLASS TYPES 'A', 'B', 'C' & 'D'.

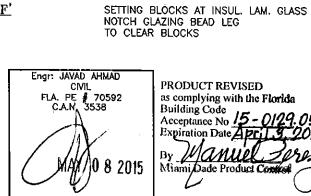


SETTING BLOCKS AT LAM. GLASS NOTCH GLAZING BEAD LEG TO CLEAR BLOCKS



GLAZING OPTIONS

TO QUALIFY FOR SMALL MISSILE IMPACT RATING EXTERIOR PLY OF GLASS TYPES 'E' & 'F' MUST BE TEMPERED.



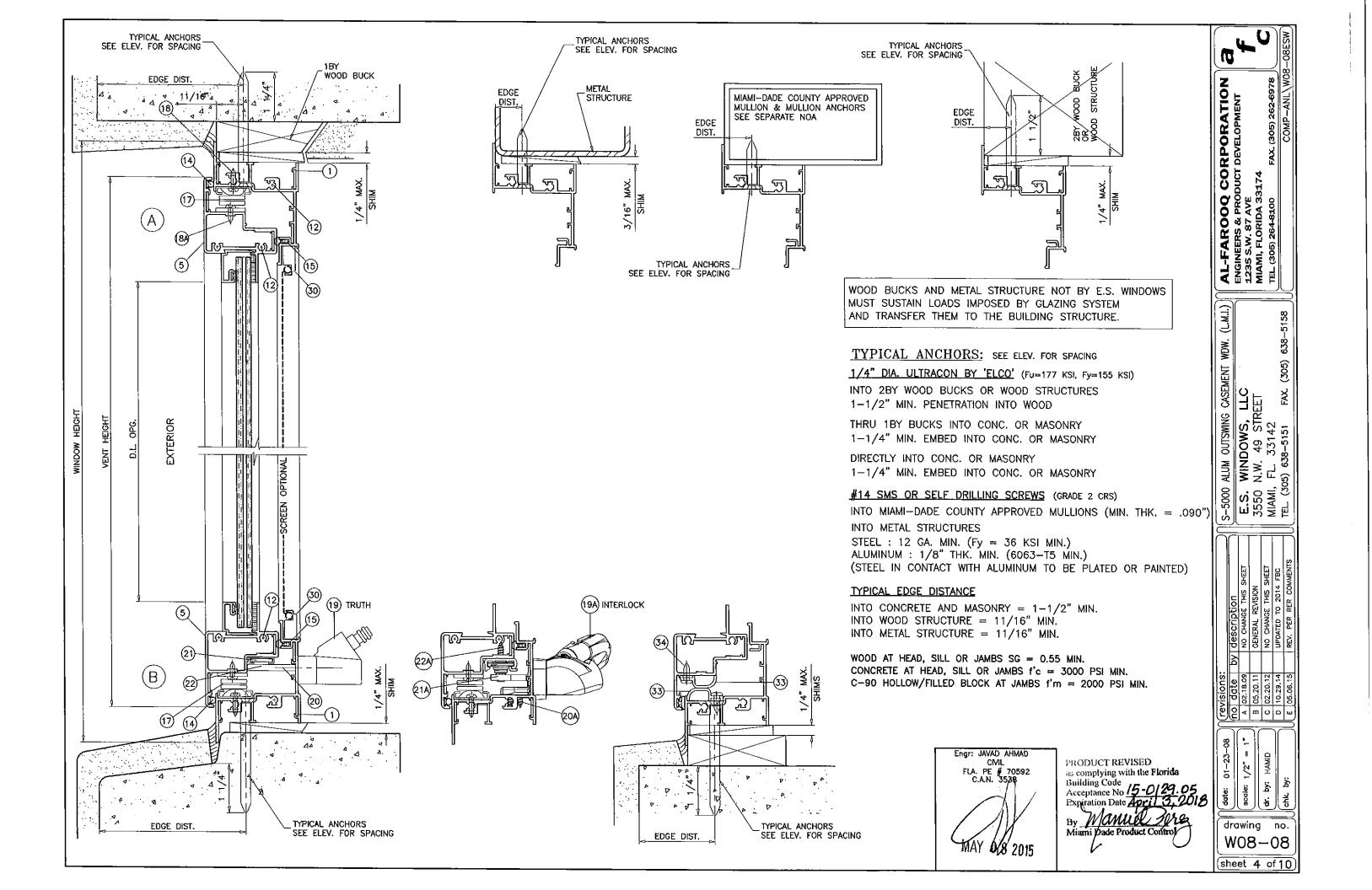
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 15 - 0129.

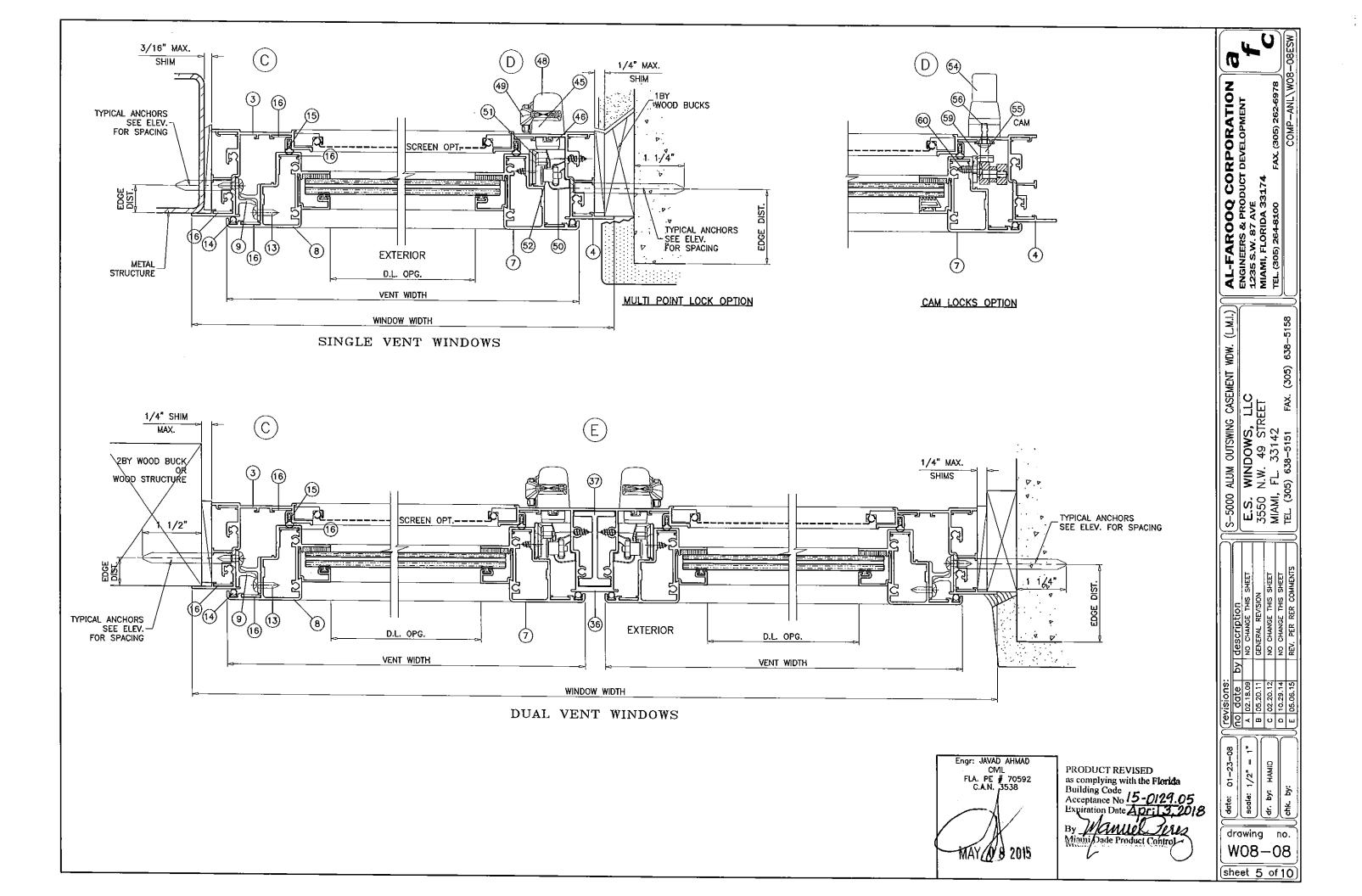
(25A) AT 1/4 POINTS ALL SIZES

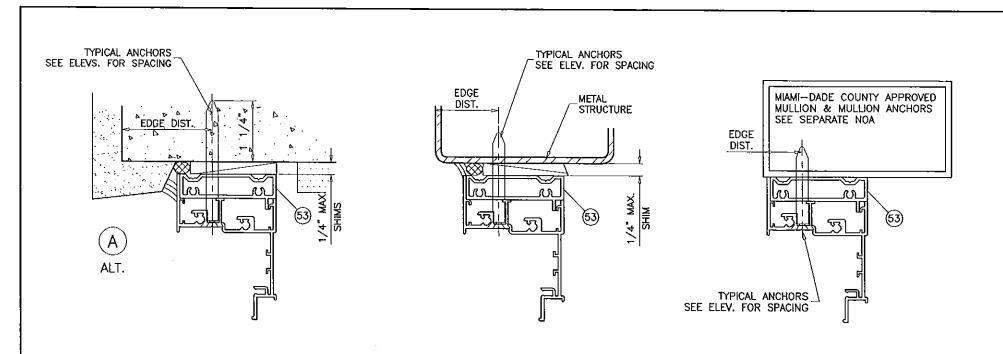
<u> </u>	ENGINEERS & PRODUCT DEVELOPMENT 4005 c.W. o7 AVE	MIAMI FLORIDA 33174	TEL (205) 264 0400 EAX (205) 262 603)(COMP-ANL\
S-5000 ALUM OUTSWING CASEMENT WDW. (L.M.I.)	E.S. WINDOWS, LLC	3550 N.W. 49 STREET	MIAMI EL 33142		LL. (305) 638-5151 FAX. (305) 638-5158
		RAL REVISION	NG DETAIL REV.	TED TO 2014 FBC	PER RER COMMENTS

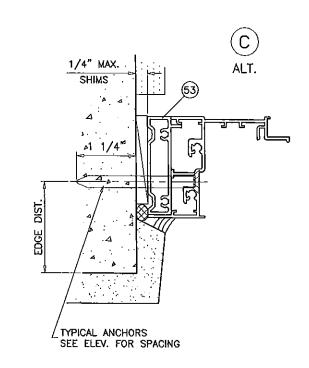
date: 01–23–08 scale: 1/2" = 1" dr. by: HAMID chk. by:	revisio	no da		B 05.20	C 02.20	D 10.29	
			1/2				Ch.

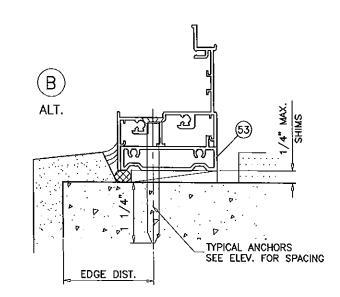
drawing no. 80-80W sheet 3 of 10











Engr: JAVAD AHMAD CML FLA. PE # 70592 C.A.N. 3538

PRODUCT REVISED as complying with the Florida Building Code 15-0129.05

drawing no. W08-08

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX. (305) 262-6978

| S-5000 ALUM OUTSWING CASEMENT WDW. (L.M.I.) | E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 | TEL (305) 638-5158 | E.X. (

description

01-23-08

scale: 1/2"

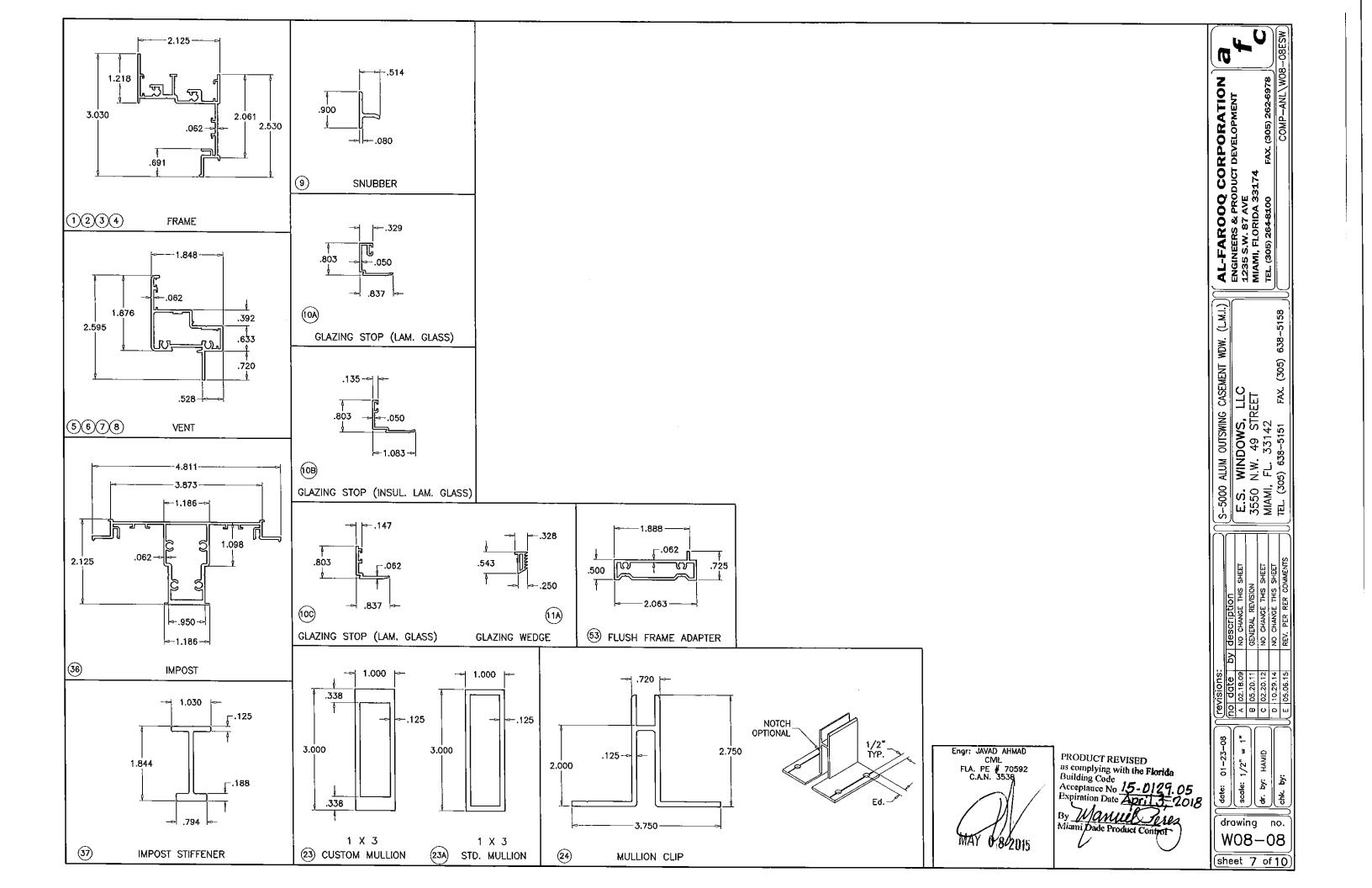
sheet 6 of 10

05.20.11 02.20.12 10.29.14 05.06.15

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Acceptance No 15-0121.05
Expiration Date April 3, 2018
By Wanua Seros
Miami Dade Product Control
Miami pade Product Condoy
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	INSTALLATION	DETAILS	WITH	FLUSH	FRAME	ADAPTER	
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TEM	R/REMARKS
2 ES5001 1 FRAME SILL 6063-T6 - 3 ES5001 1/ VENT FRAME JAMB-HINGE SIDE 6063-T6 - 4 ES5001 1/ VENT FRAME JAMB-LATCH SIDE 6063-T6 - 5 ES5002 1/ VENT VENT TOP RAIL 6063-T6 - 6 ES5002 1/ VENT VENT BOTTOM RAIL 6063-T6 - 7 ES5002 1/ VENT VENT SIDE RAIL-HINGE SIDE 6063-T6 -	
2 ES5001 1 FRAME SILL 6063-T6 - 3 ES5001 1 / VENT FRAME JAMB-HINGE SIDE 6063-T6 - 4 ES5001 1 / VENT FRAME JAMB-LATCH SIDE 6063-T6 - 5 ES5002 1 / VENT VENT TOP RAIL 6063-T6 - 6 ES5002 1 / VENT VENT BOTTOM RAIL 6063-T6 - 7 ES5002 1 / VENT VENT SIDE RAIL-HINGE SIDE 6063-T6 -	
3 ES5001 1 / VENT FRAME JAMB-HINGE SIDE 6063-T6 - 4 ES5001 1 / VENT FRAME JAMB-LATCH SIDE 6063-T6 - 5 ES5002 1 / VENT VENT TOP RAIL 6063-T6 - 6 ES5002 1 / VENT VENT BOTTOM RAIL 6063-T6 - 7 ES5002 1 / VENT VENT SIDE RAIL-HINGE SIDE 6063-T6 -	
4 ES5001 1/ VENT FRAME JAMB~LATCH SIDE 6063-T6 - 5 ES5002 1/ VENT VENT TOP RAIL 6063-T6 - 6 ES5002 1/ VENT VENT BOTTOM RAIL 6063-T6 - 7 ES5002 1/ VENT VENT SIDE RAIL-HINGE SIDE 6063-T6 -	
5 ES5002 1/ VENT VENT TOP RAIL 6063-T6 - 6 ES5002 1/ VENT VENT BOTTOM RAIL 6063-T6 - 7 ES5002 1/ VENT VENT SIDE RAIL-HINGE SIDE 6063-T6 -	
6 ES5002 1/ VENT VENT BOTTOM RAIL 6063-T6 - 7 ES5002 1/ VENT VENT SIDE RAIL-HINGE SIDE 6063-T6 -	
7 ES5002 1/ VENT VENT SIDE RAIL—HINGE SIDE 6063—T6 —	
	<u> </u>
8 ES5002 1/ VENT VENT SIDE RAIL—LATCH SIDE 6063—T6 -	
9 ES5004 2/ VENT SNUBBERS, 2-1/2" LONG 6063-T6 -	
10A ES1103 AS REQD. GLAZING BEAD (LAM. GLASS) 6063-T5 -	
10B - AS REQD. GLAZING BEAD (INSUL. LAM. GLASS) 6063-T5 -	
10C ES1008 AS REQD. GLAZING BEAD (LAM. GLASS) 6063-T6 -	_
44 67 47 40 7	
114 FOLOMO AD RECO. ALLENDARY STATES OF THE PORT OF TH	
10 SOFT PVC DOROMETER TO	
12 - AS REQD. FRAME & VENT ASSEMBLY SCREWS - #10 X 1-1/2"	PH SMS
13 - 2/ SNUBBER INSTALLATION SCREWS - #8 X 1/2" PH	SMS
14 E202 AS REQD. OUTER WEATHERSTRIPPING (POLYPROPYLENE BASE, TPE BULB) - DUROMETER 65	SHORE 'A'
15 ES5005 AS REQD. INNER WEATHERSTRIPPING EPDM DUROMETER 60	·
16 PJS40-SS AS REQD. CORNER LOCK ST. STEEL SULLIVAN & ASS	
47 70400 0 4 1577	
19 7/ UNION THE PROPERTY OF TH	
#10 × 1/2 FR	
10 07 CERTED 4 / NETT CHARLES AND A 1/2 PH	
19 23 SERIES 1/ VENT SINGLE ARM OPERATOR (AT 8-1/2" FROM ENDS) - TRUTH HARDWAR	RE
19A NOVA 1/ VENT SINGLE ARM OPERATOR (AT 8-1/2" FROM ENDS) - INTERLOCK	
20 - 4/ OPER. OPERATOR MOUNTING SCREWS - #10-24 X 3/8"	PH SMS
20A - 8/ OPER. OPERATOR MOUNTING SCREWS - #8 X 1/2" FH	SMS
21 30175 1/ OPER. 13-3/4" LONG TRACK ST. STEEL TRUTH HARDWAR	
21A - 1/ OPER, OPERATOR TRACK ST. STEEL INTERLOCK	
22 - 2/ TRACK MOUNTING SCREWS - #10 X 3/8" PH	I SS SHE
#10 × 3/5 × 11	
77 J. C. DTOD. 1117 ONLESS - #0 X 1/2 FR	SMS
071	
0003-16	
24 - AS REQD. MULLION CLIP 6063-T6 -	
	CH END, DUROMETER 75±5 SHORE A
25A - 2/ LITE SETTING BLOCK, 5/16" X 5/8" X 4" LONG EPDM AT 6" FROM EACH	CH END, DUROMETER 75±5 SHORE A
26 - 8/ LITE TAPE SPACER (1/4" X 1/2") FOAM AT 6" FROM GL	ASS ENDS
30 - OPTIONAL 5/16" BOX SCREEN	
33 ES5009 2/ VENT ANTI SAG SKATE, 2" LONG NYLON/CELCON M&M PLASTICS	
34 - 2/ SKATE SKATE MOUNTING SCREWS - #6 x 1/2" PH:	
76 F05007 4 ND007	СМС
77 F05010 10 F050 110	
45 0104 0500	
INTERCOOR	
46 - LOCK FASTENER PLATE	
47 - 2/ LOCK LOCK FASTENER SCREWS THREAD FORMIN	IG
48 CL01-2250-XXX - SNAP ON COVER _	
49 CL01-1050-XXX - SNAP ON HANDLE	
50 GUIDE (ACETAL)	
51 - KEEPER (ACETAL)	
52 - LOCK BAR (304 ST/ST)	
E7 FC FOLT AC PEOP THE STATE OF	
54 1/ VICIN LOCATION AND THE STATE OF THE ST	
54 - 1/ VENT LOCKING HANDLE - SULLIVAN & ASS	SOC.
55 - 2/ VENT LOCKING CAM (AT 11-1/2" & 50-1/2" FROM BOTTOM) - SULLICAN & AS	SSOC.
56 - 2/ LOCK LOCK MOUNTING SCREWS - #6-32 x 1/2	PH MS
57 ES5013 1/VENT LOCK HANDLE/CAM CONNECTOR - 1/4" x 1/2" A	
58 ES5011 2/ BAR CONNECTOR SCREWS - CUSTOM	
59 CS-200K-SS 2/ VENT KEEPERS (AT 12" & 51" FROM BOTTOM) ST STEEL SULLIVAN & ASS	soc
Of State State & Asia	
- 2/ KEEPER KEEPER MOUNTING SCREWS - #10 X 3/8" PH	CMC P



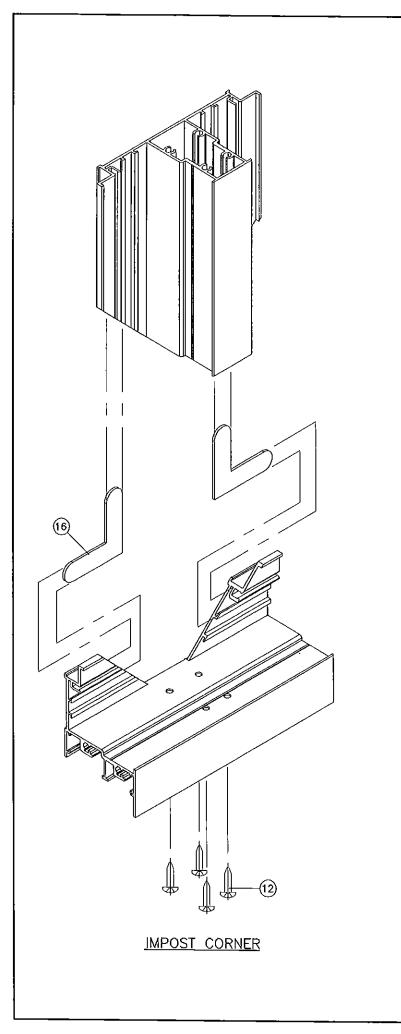
ALL FRAME AND VENT CORNERS AND INSTALLATION SCREWS SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

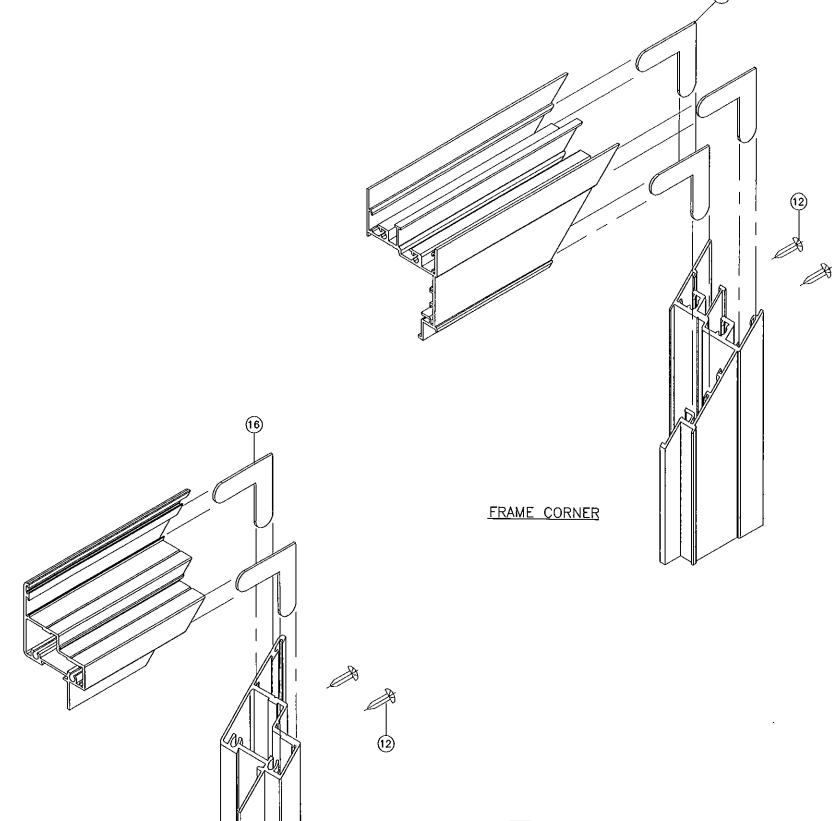
Engr: JAVAD AHMAD

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15 - 0129, 05
Expiration Date April 3, 2018
By Manuel June
Miani Pade Product Control

	3	4	-	J		-08ESW
ORPORATION		CI DEVELOPMENT	47	CAY (206) 262 6079	LAA. (505) 202-0310	COMP-ANL\W08-08ESW
S-5000 ALLIM OLITSWING CASEMENT WOW (L.M.) AL-FAROOO CORPORATION		400F C.W. 67 AVE	MIAMI FLORIDA 33174	TEL 7905 264 6400	(IEL. (303) 2040100	
(I.M.I.)					1	8-5158
WCW TWENT					1	FAX. (305) 638-5158
WING CASE		S, LLC	STREET	,		
WSTIJO MIJ		MODNI	W. 49	7214		638-515
-5000 AI		E.S. WINDOWS, LLC	3550 N.W. 49 STREET	MIAMI EL 33140	יווייים ואו	TEL. (305) 638-5151
	ייני ר		_		_	\exists
						I
	/ description	NO CHANGE THIS SHEET	GENERAL REVISION	CLASS SPACER ADDED	UPDATED TO 2014 FBC	REV. PER RER COMMENTS
visions:	date by description				10.29.14 UPDATED TO 2014 FBC	
(revisions:	no date by	A 02.18.09	☐ B 05.20.11	C 02.20.12 GLASS SPACER ADDED		E 05.06.15 REV. PER RER COMMENTS
date: 01–23–08 (revisions:	no date by		☐ B 05.20.11			

drawing no. 80-80W sheet 8 of 10





VENT CORNER

Engr: JÁVAD AHMAD CML FLA. PE # 70592 C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0129. 05
Expiration Date Opril 3, 2018
By Manuel Strain
Miami Dade Product Control

=		
date: 01-23-08	scale: 1/2" = 1"	dr. by: HAMID
dre	wing	<u> </u>

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 2648100 FAX. (305) 262-6978

S-5000 ALUM OUTSWING CASEMENT WDW. (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

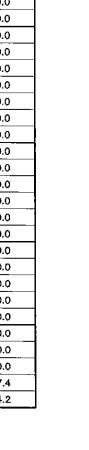
TEL (305) 638-5151 FAX. (305) 638-5158

W08-08

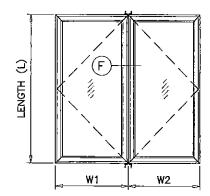
sheet 9 of 10

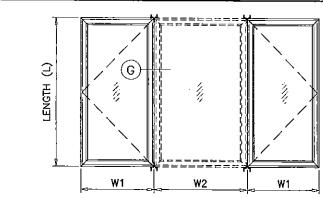
	MULLION LO	AD CAPACITY	- PSF		MULLION LO	AD CAPACITY	- PSF
WINDO	W DIMS.	I X 3 STD. MULL	1 X 3 CUSTOM MULL	WINDO	T DIMS.	1 X 3 STD. MULL	1 X 3 CUSTOM MUL
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		90.0	90.0	36"		90.0	90.0
42"		90.0	90.0	42"		90.0	90.0
45"	58"	90.0	90.0	48"	54"	90.0	90.0
48"		90.0	90.0	54"		90.0	90.0
53-1/8"		90.0	90.0	60"		90.0	90.0
62"		90.0	90.0	62"		90.0	90.0
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		90.0	90.0	36"		90.0	90.0
42"		90.0	90.0	42"		90.0	90.0
45"	63"	90.0	90.0	48*	60"	90.0	90.0
48"		90.0	90.0	54"		90.0	90.0
53-1/8"		90.0	90.0	60"	j	90.0	90.0
62°		90.0	90.0	62		90.0	90.0
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		90.0	90.0	36"	1	90.0	90,0
42"	74-1/4"	82.5	90.0	42"		90.0	90.0
45"	74-1/4	78.6	90.0	48"	66"	90.0	90.0
48"		75.4	89.1	54"		90.0	90.0
53-1/8"		71.0	89.2	59"		90.0	90.0
26-1/2"		90.0	90.0	30"		90.0	90.0
37"		84.2	90.0	36"		90.0	90.0
42"	76"	76.4	90.0	42"	72"	90.0	90.0
45"	'	72.8	90.0	48"		83.6	90.0
48"		69.7	87.4	54"		78.4	90.0
51	<u> </u>	67.1	84.2	30"		90.0	90.0
				36"		86.1	90.0
				42"	76"	76.4	90.0
				48"		69.7	87.4
NOTE				51"		67,1	84.2

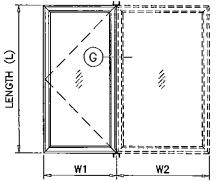
- USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
- 2. FOR CASEMENT WINDOW CAPACITY SEE SHEET 2 OF 10.
- 3. FOR FIXED WINDOW CAPACITY SEE SEPARATE NOA.
- 4. LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.

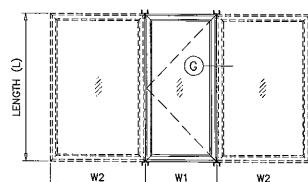


CLIPPED MULLIONS





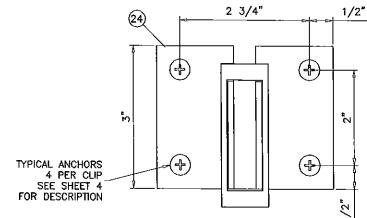




TYPICAL ELEVATIONS SIDE BY SIDE WINDOWS

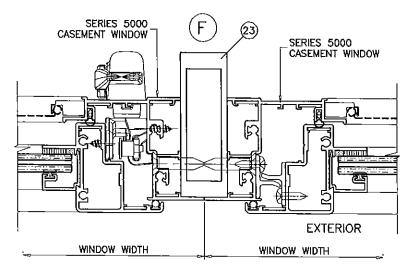
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

 $WIDTH (W) = \frac{W1 + W2}{2}$

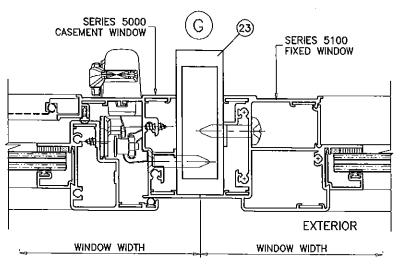


EDGE DISTANCES FOR MULLION CLIPS

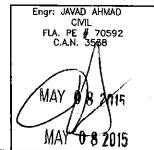
INTO CONCRETE AND MASONRY = 2" MIN. INTO WOOD STRUCTURE = 11/16" MIN. INTO METAL STRUCTURE = 11/16" MIN.



CASEMENT TO CASEMENT MULLION



CASEMENT TO FIXED MULLION



PRODUCT REVISED as complying with the Florida
Building Code
Acceptance No 15-0129.05
Expiration Date April 3,2018
By Wowal July
Miami Dade Product Control

∬ક∬ફ્ર drawing no. W08-08 sheet 10 of 10

01-23

1/2

| revisions: | no date | B | 05.20.11 | C | 02.20.12 | D | 10.29.14 | E | 05.06.15

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174

S-5000 ALUM OUTSWING CASEMENT W
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305)